

ASYMMETRIC ADAPTIVE MODULATION IN A WIRELESS COMMUNICATION SYSTEM

Abstract of the Disclosure

On embodiment of the system and method provides asymmetric adaptive
5 modulation which allows uplink and downlink subframes of data to be transmitted
between a base station and a CPE with different modulation schemes, thus increasing
the efficiency of downlink transmissions while maintaining the stability of uplink
transmissions. In systems with multiple CPEs, each CPE and base station pair can
independently select their uplink and downlink modulation techniques. The system and
10 method are also adaptive in that they adjust the modulation schemes based on, for
example, signal to noise ratio measurements or bit error rate measurements.

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